

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,668,312 B2
APPLICATION NO. : 10/552384
DATED : February 23, 2010
INVENTOR(S) : Lecomte et al.

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

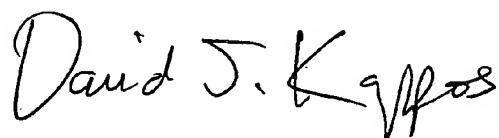
The title page should be deleted to be replaced with the attached title page.

Please insert the attached "Figure" as the sole drawing of the application.

This certificate supersedes the Certificate of Correction issued June 15, 2010.

Signed and Sealed this

Twentieth Day of July, 2010



David J. Kappos
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Lecomte et al.(10) **Patent No.:** **US 7,668,312 B2**
(45) **Date of Patent:** ***Feb. 23, 2010**(54) **SCRAMBLING, DESCRAMBLING AND
SECURE DISTRIBUTION OF AUDIO-VISUAL
SEQUENCES FROM VIDEO ENCODERS
BASED ON WAVELET PROCESSING**(76) Inventors: **Daniel Lecomte**, 157 rue de la Pompe, F-75116 Paris (FR); **Jerome Caporossi**, 7 rue du 8 mai 1945, F-92340 Bourg-la-Reine (FR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 556 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/552,384**(22) PCT Filed: **Apr. 16, 2004**(86) PCT No.: **PCT/FR2004/000947**§ 371 (c)(1),
(2), (4) Date: **Dec. 13, 2005**(87) PCT Pub. No.: **WO2004/095840**PCT Pub. Date: **Nov. 4, 2004**(65) **Prior Publication Data**

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Apr. 16, 2003 (FR) 03 50110

(51) **Int. Cl.****H04N 7/167** (2006.01)**H04N 7/10** (2006.01)**G06F 9/00** (2006.01)(52) **U.S. Cl.** **380/210; 382/100; 382/232;**
725/32(58) **Field of Classification Search** None

See application file for complete search history.

(56)

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(57)

ABSTRACT

A process for secured distribution of video sequences according to a digital stream format stemming from an encoding based on a processing by wavelets including frames including blocks containing coefficients of wavelets describing the visual elements, including analyzing the stream prior to transmission to client equipment to generate a modified main stream by deletion and replacement of selected information coding the original stream and having the format of the original stream, and complementary information of any format comprising the digital information coding the original stream and suitable for permitting reconstruction of the modified frames; and transmitting the modified main stream and the complementary information separately from a server to addressed equipment.

64 Claims, Drawing Sheet

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